



Climate change and infectious diseases in Australia: Future prospects, adaptation options, and research priorities

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Year: 2011
Journal: Asia-Pacific Journal of Public Health / Asia-Pacific Academic Consortium for Public Health. 23 (2): 54S-66S

Abstract:

Climate change will have significant and diverse impacts on human health. These impacts will include changes in infectious disease incidence. In this article, the authors review the current situation and potential future climate change impacts for respiratory, diarrheal, and vector-borne diseases in Australia. Based on this review, the authors suggest adaptive strategies within the health sector and also recommend future research priorities.

Source: <http://dx.doi.org/10.1177/1010539510391660>

Resource Description

Early Warning System:

resource focus on systems used to warn populations of high temperatures, extreme weather, or other elements of climate change to prevent harm to health

A focus of content

Exposure :

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Extreme Weather Event, Meteorological Factors, Precipitation, Sea Level Rise, Temperature

Extreme Weather Event: Flooding, Hurricanes/Cyclones

Temperature: Fluctuations

Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

Geographic Location:

resource focuses on specific location

Non-United States

Non-United States: Australasia

Health Impact: ☒

specification of health effect or disease related to climate change exposure

Infectious Disease, Respiratory Effect

Infectious Disease: Airborne Disease, Foodborne/Waterborne Disease, Vectorborne Disease

Airborne Disease: Influenza, Other Airborne Disease

Airborne Disease (other): Legionella

Foodborne/Waterborne Disease: Campylobacteriosis, Cryptosporidiosis, E. coli, Giardiasis, Melioidosis, Norovirus, Rotavirus, Salmonellosis, Other Diarrheal Disease

Vectorborne Disease: Mosquito-borne Disease

Mosquito-borne Disease: Barmah Forest Virus, Dengue, Malaria, Ross River Virus, Viral Encephalitis, Viral Encephalitis, Other Mosquito-borne Disease

Mosquito-borne Disease (other): Kunjin Encephalitis

Respiratory Effect: Bronchitis/Pneumonia, Other Respiratory Effect

Respiratory Condition (other) : Legionella

Medical Community Engagement: ☒

resource focus on how the medical community discusses or acts to address health impacts of climate change

A focus of content

Mitigation/Adaptation: ☒

mitigation or adaptation strategy is a focus of resource

Adaptation

Population of Concern: A focus of content

Population of Concern: ☒

populations at particular risk or vulnerability to climate change impacts

Children, Elderly, Low Socioeconomic Status, Racial/Ethnic Subgroup

Other Racial/Ethnic Subgroup: Indigenous populations

Other Vulnerable Population: Immunocompromised

Resource Type: ☒

format or standard characteristic of resource

Review

Resilience: ☒

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capacity of an individual, community, or institution to dynamically and effectively respond or adapt to shifting climate impact circumstances while continuing to function

A focus of content

Timescale:

time period studied

Time Scale Unspecified

Vulnerability/Impact Assessment:

resource focus on process of identifying, quantifying, and prioritizing vulnerabilities in a system

A focus of content